



**DR. ABRAHAM WILSON, Esq.\***  
**ATTORNEY AT LAW**  
**508 ELLIS PARKWAY**  
**PISCATAWAY, N.J. 08854**  
**(732) 885-5740**  
**FAX (732) 885-3409**  
**E-mail: ask4abe@aol.com**

\* REG'D PATENT ATTORNEY  
(Reg. No. 27,018)

July 13, 2001

**Commissioner for Patents**  
**US PATENT & TRADEMARK OFFICE**  
**WASHINGTON, DC 20231**

**ATTN: Sebla Terfa**  
**TEAM: OIPE**

Re: Application Number 09/850496  
Salim Nathoo Docket  
Number NAT002  
Notice to File Correction

Dear Mr. Terfa:

Please find enclosed the "Notice to File Correction" and the Corrected Claims in this matter.

Very truly yours,

Abraham Wilson

cc: Dr. Salim Nathoo



UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS  
UNITED STATES PATENT AND TRADEMARK OFFICE  
WASHINGTON, D.C. 20231  
www.uspto.gov

APPLICATION NUMBER	FILING/RECEIPT DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
09/855,321	05/14/2001	Tuomo Suntola	ASMMC.013C2

CONFIRMATION NO. 9994

20995  
KNOBBE MARTENS OLSON & BEAR LLP  
620 NEWPORT CENTER DRIVE  
SIXTEENTH FLOOR  
NEWPORT BEACH, CA 92660

## FORMALITIES LETTER



\*OC000000006158347\*

Date Mailed: 06/07/2001

## NOTICE TO FILE CORRECTED APPLICATION PAPERS

*Filing Date Granted*

This application has been accorded an Application Number and Filing Date. The application, however, is informal since it does not comply with the regulations for the reason(s) indicated below. Applicant is given **TWO MONTHS** from the date of this Notice within which to correct the informalities indicated below. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a)

The required item(s) identified below must be timely submitted to avoid abandonment:

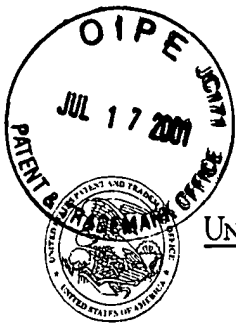
- A substitute specification in compliance with 37 CFR 1.52 because:
  - Line spacing on the specification, claims, or abstract is not 1-1/2 or double spaced (See 37 CFR 1.52(b)).

*A copy of this notice **MUST** be returned with the reply.*

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Initial Patent Examination Division (703) 308-1202

PART 2 - COPY TO BE RETURNED WITH RESPONSE



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## UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NUMBER	FILING/RECEIPT DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
09/850,496	05/07/2001	Salim A. Nathoo	NAT002 PAT

CONFIRMATION NO. 2496

## FORMALITIES LETTER



ABRAHAM WILSON  
508 ELLIS PARKWAY  
PISCATAWAY, NJ 08854

Date Mailed: 07/02/2001

## NOTICE TO FILE CORRECTED APPLICATION PAPERS

**Filing Date Granted**

This application has been accorded an Application Number and Filing Date. The application, however, is informal since it does not comply with the regulations for the reason(s) indicated below. Applicant is given **TWO MONTHS** from the date of this Notice within which to correct the informalities indicated below. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a)

The required item(s) identified below must be timely submitted to avoid abandonment:

- The Claim(s) commencing on a separate sheet (37 CFR 1.75(h)).

*A copy of this notice **MUST** be returned with the reply.*

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PART I - ATTORNEY/APPLICANT COPY

09/850,496-05/07/2001



What is claimed is:

1. A method of whitening stained or discolored teeth in the oral cavity which comprises applying to the teeth a two component whitening composition, which will whiten stained or discolored teeth, when applied thereto, the composition being comprised of a first component containing in a matrix, a safe amount of a peroxygen compound effective to whiten teeth, and a second component in a matrix containing an insoluble transition metal oxide complexed with metal chelating agents, the components being maintained separate from each other until dispensed for application to the teeth, wherein the mixing of the components results in the activation of the peroxygen compound and providing an enhanced whitening effect upon the teeth.
2. The method of claim 1 wherein the peroxygen compound is hydrogen peroxide.
3. The method of claim 1 wherein the peroxygen compound is urea peroxide.
4. The method of claim 1 wherein the peroxygen compound is calcium peroxide.
5. The method of claim 1 wherein the peroxygen compound is sodium percarbonate.
6. The method of claim 1 wherein the peroxygen compound is sodium perborate.
7. The method of claim 1 wherein the transition metal oxide is titanium dioxide.
8. The method of claim 1 wherein the transition metal oxide is zinc oxide.
9. The method of claim 1 wherein the transition metal chelating agent is one or more selected from trisodium pyrophosphate, tetrasodium diphosphate, sodium hexametaphosphate, sodium trimetaphosphate, sodium tripolyphosphate, potassium tripolyphosphate, phosphonic acid, di and tri phosphonic acid compound or its salts for example 1-hydroxyethylidene-1,1-diphosphonic acid.
10. The method of claim 1 wherein the transition metal chelating agent is one or more selected from trisodium pyrophosphate, sodium hexametaphosphate, sodium trimetaphosphate, sodium tripolyphosphate, tetrasodium diphosphate, potassium tripolyphosphate, phosphonic acid, di and tri phosphonic acid compound or its salts, for example, 1-hydroxyethylidene-1,1-diphosphonic acid.
11. A two component whitening dentifrice composition which exhibits rapid whitening of stained or discolored teeth, which composition comprises a first dentifrice component containing a peroxygen compound and a second dentifrice component containing an insoluble transition metal compound complexed with metal chelating agents, the first and second dentifrice components being kept separate from each other until dispensed for application to teeth.

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12. The composition of claim 11 wherein the peroxygen compound is hydrogen peroxide.
13. The composition of claim 11 wherein the peroxygen compound is urea peroxide.
14. The composition of claim 11 wherein the peroxygen compound is sodium percarbonate.
15. The composition of claim 11 wherein the peroxygen compound is calcium peroxide.
16. The composition of claim 11 wherein the peroxygen compound is sodium perborate.
17. The composition of claim 11 wherein the insoluble transition metal oxide is titanium dioxide
18. The composition of claim 11 wherein the insoluble transition metal oxide is zinc oxide

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